

Title (en)

Cushioning air bag with predetermined opening in air cylinder turning zone and manufacturing thereof

Title (de)

Kissen-Airbag mit vorbestimmter Öffnung in einem Luftzylinder-Faltbereich und Herstellung davon

Title (fr)

Sac d'air d'amortissement avec ouverture prédéterminée dans la zone de pliage du cylindre à air et son procédé de fabrication

Publication

**EP 2610050 A2 20130703 (EN)**

Application

**EP 12177446 A 20120723**

Priority

TW 100150083 A 20111231

Abstract (en)

A method for making a cushioning air bag, including: providing an air cylinder sheet (200) constituted by a plurality of air cylinders (1) formed by adhering two sheets of film (1a) with a plurality of longitudinal and transversal heat sealing lines (21,22); forming a plurality of turning points (4a, 4b) on each side of a middle line (M) being transversal to the air cylinders; turning the air cylinder sheet through the turning points along the middle line; adhering two sides of the turned air cylinder sheet with lateral heat sealing lines extending from two respective ends of the air cylinder sheets to a plurality of nodes (31a, 31b) on two respective sides of said middle line, thereby creating a non-heat sealing section (3) between the plurality of nodes and the middle line; and expanding the non-heat sealing section to form a lateral polygonal opening (40).

IPC 8 full level

**B31D 5/00** (2006.01); **B31B 50/00** (2017.01); **B65D 81/05** (2006.01)

CPC (source: EP US)

**B31D 5/0073** (2013.01 - EP US); **B65D 81/02** (2013.01 - US); **B65D 81/03** (2013.01 - EP US); **B31D 2205/0047** (2013.01 - EP US); **B31D 2205/0064** (2013.01 - EP US); **B65D 31/14** (2013.01 - US); **Y10T 428/1334** (2015.01 - EP US)

Cited by

CN110577019A; EP2778095A1; EP3575239A1; US10974886B2; EP2921425A1; JP2020169028A; CN104787424A; EP2921739A1; CN106313640A; EP3248901A4; WO2020203070A1; WO2015106712A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2610050 A2 20130703**; **EP 2610050 A3 20140122**; **EP 2610050 B1 20181226**; TW 201326002 A 20130701; TW I426040 B 20140211; US 2013171384 A1 20130704; US 9616634 B2 20170411

DOCDB simple family (application)

**EP 12177446 A 20120723**; TW 100150083 A 20111231; US 201213542877 A 20120706